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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/020,937	12/19/2001		Dong June Kim	MRE-0047 2861		
34610	7590	06/09/2004		EXAMINER		
FLESHNEI P.O. BOX 22		I, LLP	CHIN, PAUL T			
CHANTILLY, VA 20153				ART UNIT	PAPER NUMBER	
				3652		

DATE MAILED: 06/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Ap	plication No.	Applicant(s)					
Office Action Symmony			0/020,937	KIM, DONG JUNE					
Onic	e Action Summary	Ex	aminer	Art Unit					
			UL T. CHIN	3652					
The MAI Period for Reply	LING DATE of this commu	nication appears	s on the cover sheet	with the correspondence addres	s				
THE MAILING - Extensions of time after SIX (6) MONT - If the period for rep - If NO period for rep - Failure to reply with Any reply received	D STATUTORY PERIOD DATE OF THIS COMMUI may be available under the provision THS from the mailing date of this cor ly specified above is less than thirty by is specified above, the maximum in the set or extended period for repositive the office later than three months adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). nmunication. (30) days, a reply withi statutory period will apl ly will, by statute, caus	In no event, however, may In the statutory minimum of to ply and will expire SIX (6) Me e the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication of the communica	nication.				
Status									
1)⊠ Responsi	ve to communication(s) fi	led on <i>08 March</i>	2004						
	on is FINAL .	2b)⊠ This acti							
· <u> </u>									
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Cla	ims								
4a) Of the 5) ☐ Claim(s) . 6) ☑ Claim(s) . 7) ☐ Claim(s) .	1-14 is/are pending in the above claim(s) is/are allowed. 1-14 is/are rejected. is/are objected to. are subject to restr	are withdrawn fi							
Application Paper	s								
10)⊠ The drawi Applicant i Replacem	may not request that any obj ent drawing sheet(s) includir	er 2001 is/are: ection to the drawing the correction is	ring(s) be held in abey s required if the drawir	☐ objected to by the Examiner ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1. ed Office Action or form PTO-1	121(d).				
Priority under 35 l	J.S.C. § 119								
a)	dgment is made of a clain ☐ Some * c) ☐ None of: rtified copies of the priorit rtified copies of the priorit pies of the certified copies olication from the Internati ached detailed Office acti	y documents ha y documents ha s of the priority o onal Bureau (Po	ve been received. ve been received in locuments have bee CT Rule 17.2(a)).	Application No on received in this National Stag	le				
Attachment(s)			_						
Notice of Referen Notice of Draftspe	ces Cited (PTO-892) erson's Patent Drawing Review (PTO-948\		/ Summary (PTO-413) o(s)/Mail Date					
	osure Statement(s) (PTO-1449 o			Informal Patent Application (PTO-152)	ı				

Application/Control Number: 10/020,937

Art Unit: 3652

DETAILED ACTION

1. The appeal brief filed March 8, 2004 and the arguments presented therewith have been carefully considered and they are persuasive. Therefore, the final rejection made has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Asia et al. (6,012,222) and Asai et al. (6,012,222) in view of the Japanese Patent (JP 8-326864) or the Prior art (of Fig. 1), presented by applicant.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,2,4-9, and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Asai et al. (6,012,222).

Asai et al. (6,012,222) shows a part suction head comprising a motor (201,212,214,216,218) (see Fig. 4), a ball spline unit (126) (see Fig. 2), a rotating shaft (152), a first coupling (98) (see Col 11, lines 29-43), and a cylinder holder (150) (see Fig. 2), which can be considered as a second coupling, for transmitting force of the ball spline unit to the rotation shaft unit.

Re claim 14, it appears that Asai et al.'s device allows the rotation shaft to be detached from the ball spline.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3,10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asai et al. (6,012,222) in view of the Japanese Patent (JP 8-326864) or the Prior art (of Fig. 1), presented by applicant.

Asai et al.'s device, as presented in section 3 above, does not show a spline unit having a spline mut and a spline shaft.

However, the Japanese Patent (JP 8-326864) shows a spline unit having a spline nut and a spline shaft (5). Moreover, the prior art in Figure 1 shows a ball spline unit (20) having a spline nut (22) and a spline shaft (21). Accordingly, it would have been an obvious to one of the ordinary skill in the art at the time the invention was made to provide a well-known a spline unit having a spline nut and a spline shaft on the Asai et al.'s device as taught by the Japanese Patent (JP 8-326864) or the Prior art (of Fig. 1) in order to provide transmitting force of the ball spline unit to the rotation shaft unit.

Response to Arguments

6. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL T. CHIN whose telephone number is (703) 305-1524. The examiner can normally be reached on MON-THURS (7:30 -6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EILEEN LILLIS can be reached on (703) 308-3248. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PAUL T. CHIN

Examiner

Art Unit 3652